

Trelleborg AEM Eccospheres® SI-310 Sodium Borosilicate Glass Microspheres

Category : Ceramic , Glass , Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Eccospheres® glass microspheres are hollow thin-walled glass microspheres composed of sodium borosilicate glass. To the naked eye they resemble a fine, white, free-flowing powder. However, magnification reveals them to be near perfect spheres. Properties: High temperature resistance, Good density/strength ratios, Clean surface chemistry, Narrow particle size distribution, Low thermal conductivity, Low dielectric constant, Low dissipation factor. Surface salts formed during manufacture are removed via acid washing. This reduces the alkali content and results in a clean surface chemistry compatible with almost any resin system or surface coating. All information provided by Trelleborg Emerson & Cuming

Order this product through the following link:

http://www.lookpolymers.com/polymer_Trelleborg-AEM-Eccospheres-SI-310-Sodium-Borosilicate-Glass-Microspheres.php

Physical Properties	Metric	English	Comments
Pellet Density	0.290 - 0.330 g/cc	0.0105 - 0.0119 lb/in ³	ASTM D2840
Particle Size	50 µm	50 µm	TEC QSD
pH	6.5 - 9.0	6.5 - 9.0	ASTM D4876

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	62.0 GPa	8990 ksi	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	62.0 GPa	8990 ksi	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0730 - 0.125 W/m-K	0.507 - 0.868 BTU-in/hr-ft ² -°F	
Softening Point	800 °C	1470 °F	ASTM E794

Optical Properties	Metric	English	Comments
Refractive Index	1.448	1.448	
	@Wavelength 1500 nm	@Wavelength 1500 nm	
	1.458	1.458	
	@Wavelength 589.3 nm	@Wavelength 589.3 nm	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
	@Frequency 1e+8 Hz	@Frequency 1e+8 Hz	
Dissipation Factor	0.00050 @Frequency 1.00e+6 - 8.60e+9 Hz	0.00050 @Frequency 1.00e+6 - 8.60e+9 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Moisture Content	<= 1.0 %	<= 1.0 %	TED QSD

Descriptive Properties	Value	Comments
Floatation (% bulk volume)	99	TEC QSD
Isostatic Collapse Pressure, Min. 80% Survival (psi)	4500	ASTM D3102
Packing Factor (min)	62	

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